

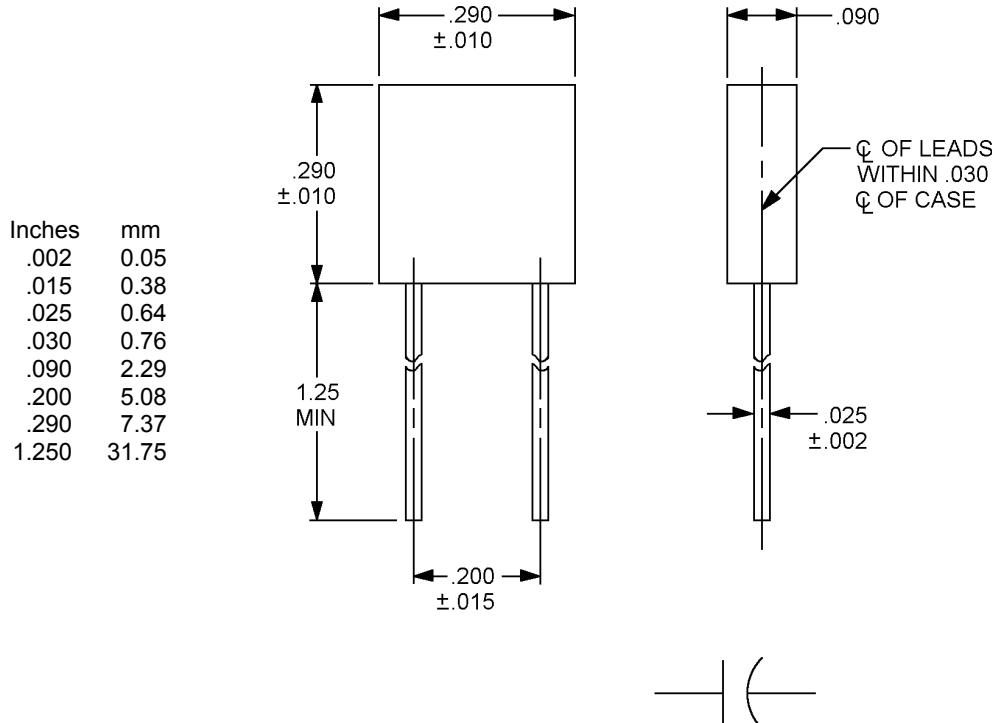
INCH-POUND
MIL-PRF-123/2D
30 October 2002
SUPERSEDED
MIL-PRF-123/2C
28 September 1994

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC, (TEMPERATURE STABLE AND GENERAL PURPOSE), HIGH RELIABILITY, LEADED, STYLE CKS06

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-123.



CIRCUIT DIAGRAM

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information.
3. Unless otherwise specified, tolerances are ±.010 inch (0.25 mm).

FIGURE 1. Style CKS06 capacitors.

TABLE I. Style CKS06 characteristics.

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage
M123A02BPC271-C	270	J, F, K	BP	100
M123A02BPC301-C	300	J, F, K	BP	100
M123A02BPC331-C	330	J, F, K	BP	100
M123A02BPC361-C	360	J, F, K	BP	100
M123A02BPC391-C	390	J, F, K	BP	100
M123A02BPC431-C	430	J, F, K	BP	100
M123A02BPC471-C	470	J, F, K	BP	100
M123A02BPC511-C	510	J, F, K	BP	100
M123A02BPC561-C	560	J, F, K	BP	100
M123A02BPC621-C	620	J, F, K	BP	100
M123A02BPC681-C	680	J, F, K	BP	100
M123A02BPC751-C	750	J, F, K	BP	100
M123A02BPC821-C	820	J, F, K	BP	100
M123A02BPC911-C	910	J, F, K	BP	100
M123A02BPC102-C	1,000	J, F, K	BP	100
M123A02BPC112-C	1,100	J, F, K	BP	100
M123A02BPC122-C	1,200	J, F, K	BP	100
M123A02BPC132-C	1,300	J, F, K	BP	100
M123A02BPC152-C	1,500	J, F, K	BP	100
M123A02BPC162-C	1,600	J, F, K	BP	100
M123A02BPC182-C	1,800	J, F, K	BP	100
M123A02BPC202-C	2,000	J, F, K	BP	100
M123A02BPC222-C	2,200	J, F, K	BP	100
M123A02BPC242-C	2,400	J, F, K	BP	100
M123A02BPB272-C	2,700	J, F, K	BP	50
M123A02BPB302-C	3,000	J, F, K	BP	50
M123A02BPB332-C	3,300	J, F, K	BP	50
M123A02BPB362-C	3,600	J, F, K	BP	50
M123A02BPB392-C	3,900	J, F, K	BP	50
M123A02BPB432-C	4,300	J, F, K	BP	50
M123A02BPB472-C	4,700	J, F, K	BP	50
M123A02BXC562KC	5,600	K	BX	100
M123A02BXC682KC	6,800	K	BX	100
M123A02BXC822KC	8,200	K	BX	100
M123A02BXC103KC	10,000	K	BX	100
M123A02BXC123KC	12,000	K	BX	100
M123A02BXC153KC	15,000	K	BX	100
M123A02BXC183KC	18,000	K	BX	100
M123A02BXC223KC	22,000	K	BX	100
M123A02BXC273KC	27,000	K	BX	100
M123A02BXC333KC	33,000	K	BX	100
M123A02BXC393KC	39,000	K	BX	100

See footnote at end of table.

TABLE I. Style CKS06 characteristics - Continued.

PIN 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage
M123A02BXC473KC	47,000	K	BX	100
M123A02BXC563KC	56,000	K	BX	100
M123A02BXC683KC	68,000	K	BX	100
M123A02BXC823KC	82,000	K	BX	100
M123A02BXC104KC	100,000	K	BX	100
M123A02BXB563KC	56,000	K	BX	50
M123A02BXB683KC	68,000	K	BX	50
M123A02BXB823KC	82,000	K	BX	50
M123A02BXB104KC	100,000	K	BX	50
M123A02BXB124KC	120,000	K	BX	50
M123A02BXB154KC	150,000	K	BX	50
M123A02BXB184KC	180,000	K	BX	50
M123A02BXB224KC	220,000	K	BX	50
M123A02BXB274KC	270,000	K	BX	50
M123A02BXB334KC	330,000	K	BX	50
M123A02BXB394KC	390,000	K	BX	50
M123A02BXB474KC	470,000	K	BX	50
M123A02BXB564KC	560,000	K	BX	50
M123A02BXB684KC	680,000	K	BX	50
M123A02BXB824KC	820,000	K	BX	50
M123A02BXB105KC	1,000,000	K	BX	50

1/ The complete PIN will include a symbol to indicate capacitance tolerance, if applicable.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case type: Molded or preform.

Lead wire: Termination C in accordance with MIL-PRF-123.

Capacitance value: See table I.

Capacitance tolerance: See table I.

Operating temperature: -55°C to +125°C.

Voltage rating: See table I.

Marking: In accordance with MIL-PRF-123, example 2.

Extension of qualification option: For MIL-PRF-123/2 manufacturers that are currently qualified to a subset of the full capacitance range for a given voltage rating and voltage-temperature characteristic; qualification to additional capacitance values may be granted based upon successfully meeting MIL-STD-790 requirements, in-process inspection, and group A and group B inspections for those values. This qualification option is restricted to a given voltage rating and voltage-temperature characteristic. The highest capacitance value qualified can be the basis for qualifying lower capacitance values of the same voltage rating and voltage temperature characteristic.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR
Navy - EC
Air Force - 19
DLA - CC
NASA - NA

Review activities:

Air Force - 11

Preparing activity:

DLA - CC

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